


FUEL CELL

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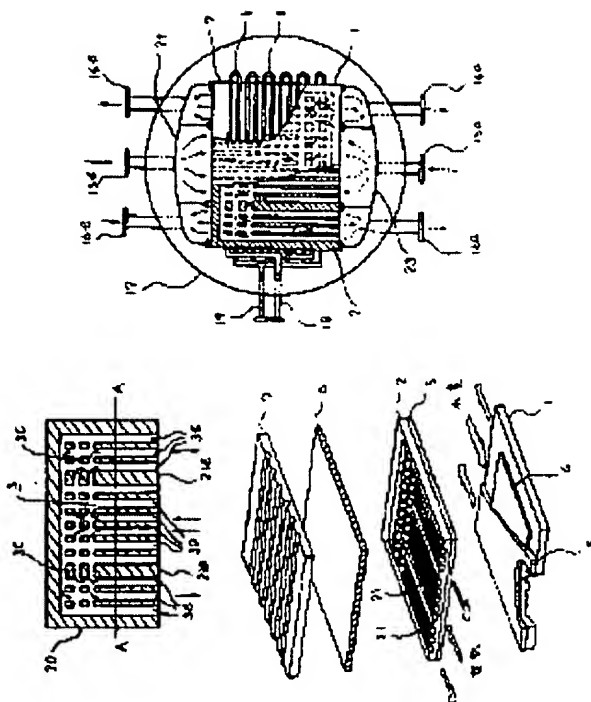
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Abstract of JP57138782

PURPOSE: To simplify a cell structure by providing an opening for gas intake ports and exhaust ports only on one side of a unit cell laminate and arranging manifolds with gas intake ports and exhaust ports on the opening side.

CONSTITUTION: A number of grooves provided as gas flow paths 3 on one face of an electrode substrate 20 used for a fuel electrode 1 and an air electrode 2 are divided into three groups by partition walls 21a, 21b, the flow paths in the center are used for gas feeding and the flow paths at both sides are used for gas exhausting. These electrode substrate 10 are treated with catalysts coping with fuel and air respectively, and matrices 5 are fixed, then they are arranged and laminated so that the flat planes face each other and the gas flow paths for fuel and air are in opposite directions. A fuel gas manifold 22 and an air manifold 23 are fixed to two opposite sides where gas feed ports 3a and gas exhaust ports 3b of this laminate are provided, and they are stored in a housing tank 17.



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